

187 - Measurement of Differential Z/gamma+jet+X Cross Sections with the D0 Detector

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We present measurements of differential cross sections in inclusive Z/gamma plus jet production in a data sample of 1 fb⁻¹ collected with the D0 detector in proton antiproton collisions at $\sqrt{s}=1.96\text{TeV}$. Measured variables include the Z/gamma transverse momentum ($p_T\text{-Z}$), and rapidity ($y\text{-Z}$), the leading jet p_T ($p_T\text{-jet}$), and rapidity ($y\text{-jet}$), as well as various angles of the Z+jet system. We compare the results to different Monte Carlo event generators and to next-to-leading order perturbative QCD (NLO pQCD) predictions, with non-perturbative corrections applied.